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[1. c: Measurements of the Chemical Composition of Atmospheric Aerosols](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Enhanced measurement methods are needed for the real-time characterization of the bulk and the size-resolved chemical composition of ambient aerosols, particularly carbonaceous aerosols. Such improved measurements would be used to facilitate the identification of the origin of aerosols, (i.e., primary versus secondary and fossil fuel versus biogenic). Also, improved measurements are needed to he ...

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[2. d: Measurements of the Chemical Composition of Atmospheric Aerosol Precursors](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In order to better understand the evolution of aerosols in the open air, grant applications are sought to develop instruments that can make fast measurements of gas phase organics or other substances that might either condense or dissolve into aerosols or cloud droplets. Of special interest are volatile organic compounds (VOC) and intermediate volatility organic compounds (IVOC). Although VOCs an ...

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[3. e: Aerosol and Hydrometeor Size Distributions](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Knowledge of particle size distribution is essential for describing both direct and indirect radiative forcing by aerosols. However, current techniques for determining these distributions are often ambiguous because of the assumption that the particles are spherical. In particular, the optical techniques most often used in the 0.5-10 μ m size range have inherent problems. Therefore, grant applicat ...

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[4. f: Aerosol Scattering and Absorption \(in situ\)](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

The aerosol absorption coefficient, together with the aerosol scattering coefficient, determines the single-scattering albedo. This key aerosol property, along with the factors that contribute to it, are critical for determining heating rates and climate forcing by aerosols. Therefore, grant applications are sought to develop reliable instruments for the in situ measurement (using aircraft or ball ...

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[5. g: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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[6. 18: CARBON CYCLE AND RELATED GREENHOUSE GAS MEASUREMENTS OF THE ATMOSPHERIC AND THE BIOSPHERE](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Eighty-five percent of our nation's energy results from the burning of fossil fuels from vast reservoirs of coal, oil, and natural gas. These processes add carbon to the atmosphere, principally in the form of carbon dioxide (CO₂). It is important to understand the fate of this excess CO₂ in the global carbon cycle in order to assess contemporary terrestrial carbon sinks, the sensitivity o ...

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[7. b: Innovation and Improvement for In Situ Root Measurements](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Fine roots (generally < 2 mm in diameter) play a critical role in the carbon and nutrient cycles of ecosystems. Their production, distribution within the soil, and turnover must be measured to have a full understanding of how an ecosystem is responding to perturbations such as climate change (Reference 2, 10 and 11). Currently, the best method available for quantifying fine roots is minirh ...

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8. [c: Improved Real-Time Measurements of Nitrous Oxide Emission from Soils](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Nitrous oxide (N₂O) is an important greenhouse gas, resulting primarily from microbial activity in the soil, and is partially regulated by soil chemical and physical properties (for example, soil pH, organic matter availability, soil type, temperature, and moisture). Nitrous oxide emission can be highly variable in both space and time due to nitrogen amendments and other biogeochemical perturbati ...

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9. [d: Innovation and Improvement for In Situ Physical and Chemical of Soil Properties](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Quantification and analysis of the physical and chemical properties of the soil are particularly difficult due to the inherent spatial and temporal variability of soils. Current methods require soils to be extracted from the field and transported to a laboratory setting for investigation that could result in artifacts in data analysis (Reference 2, 3, 4, 19 and 20). A number of recent advances h ...

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10. [e: Other](#)

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